

Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

PROCEEDINGS

OF

The Academy of Natural Sciences

OF

PHILADELPHIA

VOLUME LXVIII

1916

PHILADELPHIA:

THE ACADEMY OF NATURAL SCIENCES

LOGAN SQUARE

1916

THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA.

January 15, 1917.

I hereby certify that printed copies of the Proceedings for 1916 were mailed as follows:—

Pages	1-32	March	7,	1916.
"	33-64	March	15,	1916.
"	65-84		31,	1916.
"	85-196	May	9,	1916.
"	197-314	May	23,	1916.
"	315-378	June	21,	1916.
"	379-426	August	14,	1916.
"	427-474	August	30,	1916.
"	475-538	November	21,	1916.
"	539-602	December	7,	1916.
"		January		

EDWARD J. NOLAN,
Recording Secretary.

PUBLICATION COMMITTEE:

HENRY SKINNER, M.D., Sc.D., WITMER STONE, A.M., Sc.D., HENRY A. PILSBRY, Sc.D., WILLIAM J. Fox,

EDWARD J. NOLAN, M.D., Sc.D.

The President, Samuel Gibson Dixon, M.D., LL.D., ex-officio.

EDITOR: EDWARD J. NOLAN, M.D., Sc.D.

CONTENTS.

 $For \ Announcements, \ Reports, \ etc., \ see \ General \ Index.$

	PAGE
Alexander, Charles P. New or little-known crane-flies	
from the United States and Canada: Tipulidæ, Ptychop-	
teridæ, Diptera. Part 3 (Plates XXV–XXXI)	480
Banks, Nathan. Revision of Cayuga Lake spiders (Plates	
X, XI)	68
BARRINGER, DANIEL M. A possible partial explanation of the	
visibility and brilliancy of comets. With an addendum	
by Elihu Thomson	472
Berry, S. Stillman. Cephalopoda of the Kermadec Islands	
(Plates VI, VII, VIII, IX)	45
COCKERELL, T. D. A. Some bees from Australia, Tasmania,	
and the New Hebrides	360
COLTON, HAROLD, S. On some varieties of Thais lapillus in	
the Mount Desert region, a study of individual ecology	440
CRAWLEY, HOWARD. The sexual evolution of Sarcocystis muris	
(Plates I, II, III, IV)	3
The zoological position of Sarcosporidia	379
Dall, William H. A new species of Onchidiopsis from	
Bering Sea	376
Daniels, L. E. See Henderson, Junius.	
FOWLER, HENRY W. Cold-blooded vertebrates from Costa	
Rica and the Canal Zone	389
Notes on fishes of the orders Haplomi and Mycrocyprini	415
HEATH, HAROLD. The nervous system of Crepidula adunca	
and its developments	479
HEBARD, MORGAN. See REHN, JAMES A. G.	
HENDERSON, JUNIUS, and L. E. DANIELS. Hunting Mollusca	
in Utah and Idaho (Plates XV, XVI, XVII, XVIII)	315
JACOBS, MERKEL H., Ph.D. Temperature and the activities	
of animals	85

iv CONTENTS.

TV CONTENTS.	
PILSBRY, HENRY A. Notes on the anatomy of Oreohelix,	PAGE
with a catalogue of the species (Plates XIX, XX, XXI,	
XXII)	340
REHN, JAMES A. G., and MORGAN HEBARD. Studies in the	
Dermaptera and Orthoptera of the Coastal Plain and	
Piedmont Section of the southeastern United States	
(Plates XII, XIII, XIV)	87
Thomson, Elihu. See Barringer, D. M.	
VIERECK, HENRY L. New species of North American bees of	
the genus Andrena from west of the 100th Meridian	
contained in the collections of The Academy of Natural	
Sciences of Philadelphia	550
Wade, Bruce. New genera and species of Gastropoda from	
the Upper Cretaceous (Plates XXIII, XXIV)	455